CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/RP/W.No.08/CSR-01/847e/CEMENT/2018-19 Date: 07.01.2019

TEST REPORT ON CEMENT

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP Bangalore.
* Agency	:	**Mr. R.Prakash** (M/s. Brinda Constructions), No.19&20, 1st Main road, Jaimaruthinagara, Nandini Layout Bangalore-560096.
* Name of Work	:	Construction of Drains and Improvements of Culverts at Balaji layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/203/2018-19 Dated:29.12.2018
* Sample ID	:	Cement
Sample Received on	:	05.01.2019
Period of Testing	:	05.01.2019 to 07.01.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	175 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	380 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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Job No.:CTCE/BBMP/RP/W.No.08/CSR-01/847e/SAND-Gradation/2018-19 07.01.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Executive Engineer, Byatarayanapura Division, BBMP Bangalore.**
* Agency	:	**Mr. R.Prakash** (M/s. Brinda Constructions), No.19&20, 1st Main road, Jaimaruthinagara, Nandini Layout Bangalore-560096.
* Name of Work	:	Construction of Drains and Improvements of Culverts at Balaji layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/203/2018-19 Dated:29.12.2018
* Sample ID	:	Fine Aggregates (M -Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	05.01.2019
Date of Testing	:	07.01.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.60	90-100	90-100	90-100	95-100
2.36	78.60	60-95	75-100	85-100	95-100
1.18	56.10	30-70	55-90	75-100	90-100
600 Micron	37.40	15-34	35-59	60-79	80-100
300 Micron	12.50	5-20	8-30	12-40	15-50
150 Micron	2.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

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Job No.: CTCE/BBMP/RP/W.No.08/CSR-01/847e/AGG/GR/2018-19 07.01.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP Bangalore.
* Agency	:	**Mr. R.Prakash** (M/s. Brinda Constructions), No.19&20, 1st Main road, Jaimaruthinagara, Nandini Layout Bangalore-560096.
* Name of Work	:	Construction of Drains and Improvements of Culverts at Balaji layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/203/2018-19 Dated:29.12.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	05.01.2019
Date of Testing	:	07.01.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.70	95-100	85-100
20	37.40	30-70	0-20
10	18.04	10-35	0-5
4.75	2.94	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/RP/W.No.08/Steel/2018-19 09.01.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP Bangalore.
* Agency	:	**Mr. R.Prakash** (M/s. Brinda Constructions), No.19&20, 1st Main road, Jaimaruthinagara, Nandini Layout Bangalore-560096.
* Name of work	:	Construction of Drains and Improvements of Culverts at Balaji layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/203/2018-19 Dated:29.12.2018
* Samples ID	:	8 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	09.01.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	516	557	13.1	O.K	O.K

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Job No.: CTCE/BBMP/RP/W.No.08/Steel/2018-19 09.01.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP Bangalore.
* Agency	:	**Mr. R.Prakash** (M/s. Brinda Constructions), No.19&20, 1st Main road, Jaimaruthinagara, Nandini Layout Bangalore-560096.
* Name of work	:	Construction of Drains and Improvements of Culverts at Balaji layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/203/2018-19 Dated:29.12.2018
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	09.01.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	518	559	13.35	O.K	O.K

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Job No.: CTCE/BBMP/RP/W.No.08/CSR-01/847e/CC Kerb/2018-19 24.01.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP Bangalore.
* Agency	:	**Mr. R.Prakash** (M/s. Brinda Constructions), No.19&20, 1st Main road, Jaimaruthinagara, Nandini Layout Bangalore-560096.
* Name of work	:	Construction of Drains and Improvements of Culverts at Balaji layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/203/2018-19 Dated:29.12.2018
* Sample ID	:	CC Kerb
* Grade of Concrete	:	M_{15}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	22.01.2019
Date of Testing	:	24.01.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.392	2456.00	1.58	0.955	23.65	12.04	13.01	13.63	17.03
2	50.00	81.00	0.402	2527.62	1.62	0.959	23.18	11.81	12.75	13.30	16.62
3	50.00	82.00	0.408	2534.06	1.64	0.961	24.19	12.32	13.31	13.84	17.30

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Job No.: CTCE/BBMP/RP/W.No.08/CSR-01/847e/SAND-Gradation/2018-19 24.01.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP Bangalore.
* Agency	:	**Mr. R.Prakash** (M/s. Brinda Constructions), No.19&20, 1st Main road, Jaimaruthinagara, Nandini Layout Bangalore-560096.
* Name of Work	:	Construction of Drains and Improvements of Culverts at Balaji layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
*Reference	:	BBMP/EE/BTP/WO/203/2018-19 Dated:29.12.2018
*Sample ID	:	Fine Aggregates (Sand Pointing)
Technical Reference	:	IS : 1542 - 1992 (RA-2014)
Sample Received on	:	22.01.2019
Date of Testing	:	24.01.2019

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS : 1542 - 1992 (RA-2014) Clause 5.1
10	100	100
4.75	98.40	95-100
2.36	96.20	95-100
1.18	94.60	90-100
600 Micron	90.40	80-100
300 Micron	47.90	20-65
150 Micron	9.30	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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Job No.: CTCE/BBMP/RP/W.No.08/CSR-01/847e/Cube/2018-19 01.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP Bangalore.
* Agency	:	**Mr. R.Prakash,** (M/s. Brinda Constructions), No.19&20, 1st Main road, Jaimaruthinagara, Nandini Layout Bangalore-560096.
* Name of the work	:	Construction of Drains and Improvements of Culverts at Balaji layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/203/2018-19 Dated:29.12.2018
* Sample ID	:	RCC Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	01.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.01.2019	01.02.2019	8.119	325.6	14.47
2	25.01.2019	01.02.2019	8.236	335.8	14.92
3	25.01.2019	01.02.2019	8.254	342.6	15.23

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Job No.: CTCE/BBMP/RP/W.No.08/CSR-01/847e/Cube/2018-19 22.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP Bangalore.
* Agency	:	**Mr. R.Prakash** (M/s. Brinda Constructions), No.19&20, 1st Main road, Jaimaruthinagara, Nandini Layout Bangalore-560096.
* Name of the work	:	Construction of Drains and Improvements of Culverts at Balaji layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/203/2018-19 Dated:29.12.2018
* Sample ID	:	RCC Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	22.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.01.2019	22.02.2019	8.126	498.7	22.16
2	25.01.2019	22.02.2019	8.246	516.4	22.95
3	25.01.2019	22.02.2019	8.375	530.1	23.56

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Job No.: CTCE/BBMP/RP/W.No.08/CSR-01/847e/Cube/2018-19 02.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Executive Engineer,** Byatarayanapura Division, BBMP Bangalore.
* Agency	:	**Mr. R.Prakash,** (M/s. Brinda Constructions), No.19&20, 1st Main road, Jaimaruthinagara, Nandini Layout Bangalore-560096.
* Name of the work	:	Construction of Drains and Improvements of Culverts at Balaji layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/203/2018-19 Dated:29.12.2018
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	02.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.01.2019	02.02.2019	8.415	335.4	14.91
2	26.01.2019	02.02.2019	8.312	345.6	15.36
3	26.01.2019	02.02.2019	8.286	328.7	14.61

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Job No.: CTCE/BBMP/RP/W.No.08/CSR-01/847e/Cube/2018-19 23.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Executive Engineer,** Byatarayanapura Division, BBMP Bangalore.
*** Agency**	:	**Mr. R.Prakash,** (M/s. Brinda Constructions), No.19&20, 1st Main road, Jaimaruthinagara, Nandini Layout Bangalore-560096.
*** Name of the work**	:	Construction of Drains and Improvements of Culverts at Balaji layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/203/2018-19 Dated:29.12.2018
*** Sample ID**	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.01.2019	23.02.2019	8.102	501.4	22.28
2	26.01.2019	23.02.2019	8.208	525.4	23.35
3	26.01.2019	23.02.2019	8.335	486.5	21.62

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/RP/W.No.08/CSR-01/847e/Cube/2018-19 04.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Executive Engineer,** Byatarayanapura Division, BBMP Bangalore.
*** Agency**	:	**Mr. R.Prakash,** (M/s. Brinda Constructions), No.19&20, 1st Main road, Jaimaruthinagara, Nandini Layout Bangalore-560096.
*** Name of the work**	:	Construction of Drains and Improvements of Culverts at Balaji layout in Ward No.08, Kodigehalli, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/203/2018-19 Dated:29.12.2018
*** Sample ID**	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	04.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.01.2019	04.02.2019	8.257	333.5	14.82
2	28.01.2019	04.02.2019	8.315	343.2	15.25
3	28.01.2019	04.02.2019	8.405	351.2	15.61

*Information is furnished by the Customer/Representative.

Note:

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.01.2019	25.02.2019	8.169	515.4	22.90
2	28.01.2019	25.02.2019	8.377	492.4	21.88
3	28.01.2019	25.02.2019	8.263	508.9	22.62

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Job No.: CTCE/BBMP/RP/W.No.08/CSR-01/847e/Cube/2018-19 09.02.2019

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*** Reference**	:	BBMP/EE/BTP/WO/203/2018-19 Dated:29.12.2018
*** Sample ID**	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	09.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.02.2019	09.02.2019	8.139	334.6	14.87
2	02.02.2019	09.02.2019	8.278	351.8	15.64
3	02.02.2019	09.02.2019	8.335	362.4	16.11

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Job No.: CTCE/BBMP/RP/W.No.08/CSR-01/847e/Cube/2018-19 02.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	02.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.02.2019	02.03.2019	8.273	495.5	22.02
2	02.02.2019	02.03.2019	8.335	511.3	22.72
3	02.02.2019	02.03.2019	8.402	523.6	23.27

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